Base from U.S.G.S 1:63,360

Topographic Map Series, 1951

OPEN-FILE REPORT

97-156-J Pamphlet accompanies map BREW, David A., Reconnaissance Geologic Map of the Petersburg C-4 Quadrangle, southeastern Alaska

CORRELATION OF MAP UNITS IN THE PETERSBURG C-4 QUADRANGLE DUNCAN CANAL-ZAREMBO ISLAND-SCREEN ISLAND SUB-BELT OF THE GRAVINA BELT (SEE INDEX MAP FOR LOCATION OF BELTS) METAMORPHOSED STEPHENS PASSAGE GROUP AND OTHER ROCKS (Upper(?) Mesozoic) Semischist and phyllite Massive Limestone HOLOCENE Greenschist And Greenstone Metamorphosed From Intermediate To Mafic Volcanic Rocks Qb HOLOCENE and (or) PLEISTOCENE Quartzite Metamorphosed From Chert KUIU –ETOLIN BELT Schist and Semischist Metamorphosed From Felsic Volcanic Rocks QTr QTa QTb Phyllite and Slate Metamorphosed From Tuff, Mudstone and Minor Graywacke Metamorphosed Gabbro Tmqk 1) MIOCENE and (or) OLIOCENE CENOZOIC HYD GROUP(?) (Upper Triassic) EOCENE TERTIARY Felsic and Intermediate Volcanic Flows and Breccia, Limestone, and Argillite GRAVINA BELT FOSSILIFEROUS LIMESTONE (Lower and Middle Devonian) 1) Ksg Kss Ksp 2) UPPER CRETACEOUS CRETACEOUS LINE SYMBOLS DUNCAN CANAL ZAREMBO 1.-LOWER CRETACEOUS (BERRIASIAN) Contact; shown as solid line where position is known or inferred and where concealed SCREEN 1. SUB - BELT MESOZOIC by younger units or water; this convention has been adopted to facilitate future UPPER (?) MESOZOIC Mzs Mzl Mzv Mzc Mzr Mzp Mzg MESOZOIC scanning and digitizing of this map data UPPER CRETACEOUS CRETACEOUS High-angle fault; shown as solid line where position is known or inferred and where concealed by younger units or water; this convention has been adopted to facilitate Thv future scanning and digitizing of this map data PENNSYLVANIAN PENNSYLVANIAN AND DEVONIAN MISSISSIPPIAN AND DEVONIAN UPPER
DEVONIAN
LOWER AND MIDDLE
DEVONIAN PALEOZOIC DIs SITKA SILURIAN (?) BRADFIELD V PETERSBURG 1. AGE OF EMPLACEMENT LOWER SILURIAN TO SILURIAN AND ORDOVICIAN 2. AGE OF METAMORPHISM SURFICIAL DEPOSITS (Holocene and(or) Pleistocene)--Alluvium, colluvium, tidal mudflat deposits, and some glaciofluvial deposits. KUIU-ETOLIN BELT EXTRUSIVE AND INTRUSIVE VOLCANIC ROCKS OF KUIU-ETOLIN VOLCANIC-PLUTONIC BELT (Quaternary and Tertiary)

> Index map of Petersburg project area (Brew and others, 1984) showing locations of belts mentioned in text and on Correlation of Map Units diagram and the locations of 1:250,000- and 1:63,360-scale quadrangles. The 1:63,360-scale quadrangles in this Open-File Report map series (OFR 97-156a-n) are indicated by capital

LP. CRAIG letters. The different types of lines bounding the belts have no special significance.

> This report is preliminary and has not been edited or reviewed for conformity with U.S. Geological Survey editorial standards or with the North American Stratigraphic Code. Any use of trade, firm, or product names is for descriptive purposes only and does not imply endorsement by the U.S. Government

KETCHIKAN

RECONNAISSANCE GEOLOGIC MAP OF THE PETERSBURG C-4 QUADRANGLE, SOUTHEASTERN ALASKA

Qb

QTr

QTa QTb

Geologic Mapping by:

CONTOUR INTERVAL 100 FEET
DATUM IS MEAN SEA LEVEL
DEPTH CURVES IN FEET-DATUM IS MEAN LOWER LOW WATER

D.A. Brew, H.C. Berg, P.D. Burrell, A.B. Ford, D.J. Grybeck, C. Huie, S.J. Hunt, S.M. Karl, R.D. Koch, R.P. Morrell, A.T. Ovenshine, K. Reading, and R.A. Sonnevil; 1971-1983

Extrusive Basaltic Rocks and Underlying Sediments (Holocene and(or) Pleistocene)

INTRUSIVE GRANITIC AND OTHER ROCKS OF KUIU-ETOLIN VOLCANIC-PLUTONIC BELT (Miocene

Heterogeneous Granitic Rocks of Central Kupreanof and Northeastern Kuiu Islands

GRAVINA BELT

INTRUSIVE ROCKS OF ADMIRALTY-REVILLAGIGEDO PLUTONIC BELT AND ASSOCIATED

METAMORPHOSED STEPHENS PASSAGE GROUP ROCKS (Upper Cretaceous)

Rhyolite, Rhyodacite, and Related Siliceous Extrusive and Intrusive Rocks

Andesite and Other Intermediate Extrusive Rocks

Biotite-Epidote-Hornblende Quartz Monzodiorite

Basalt and Other Mafic Extrusive Rocks

Dikes, Sills, and Extrusive Rocks

MIGMATITE (Upper Cretaceous)

Greenstone and Greenschist

Hornblende Diorite

Schist and Hornfels

David A. Brew 1997